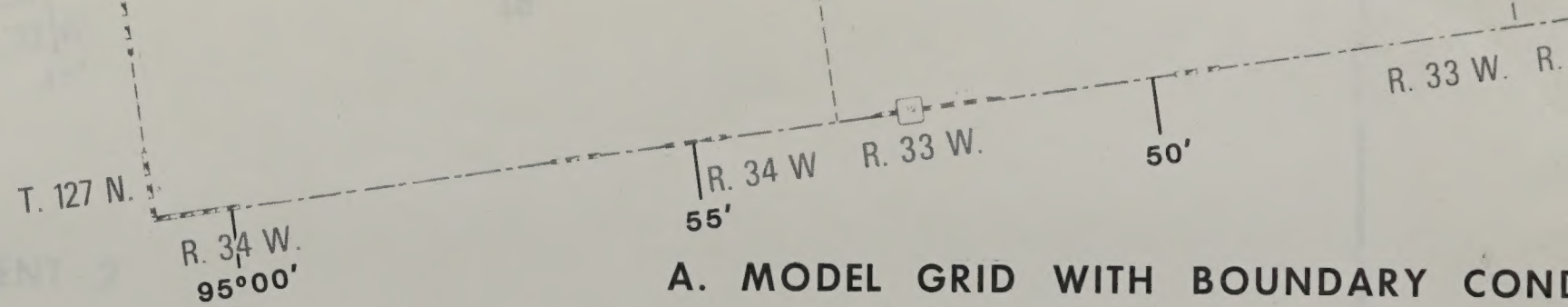


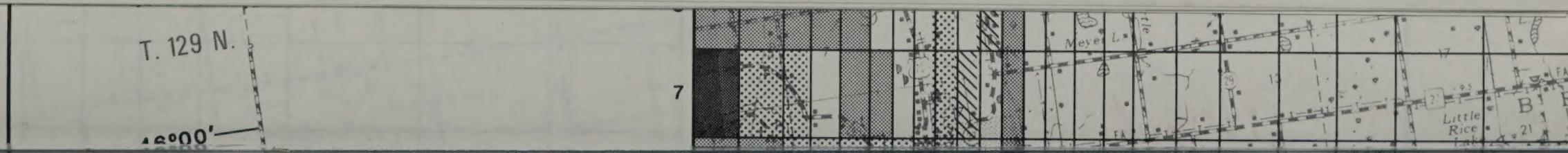
A. MODEL GRID WITH BOUNDARY COND

DEPOSITORY
APR 19
UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

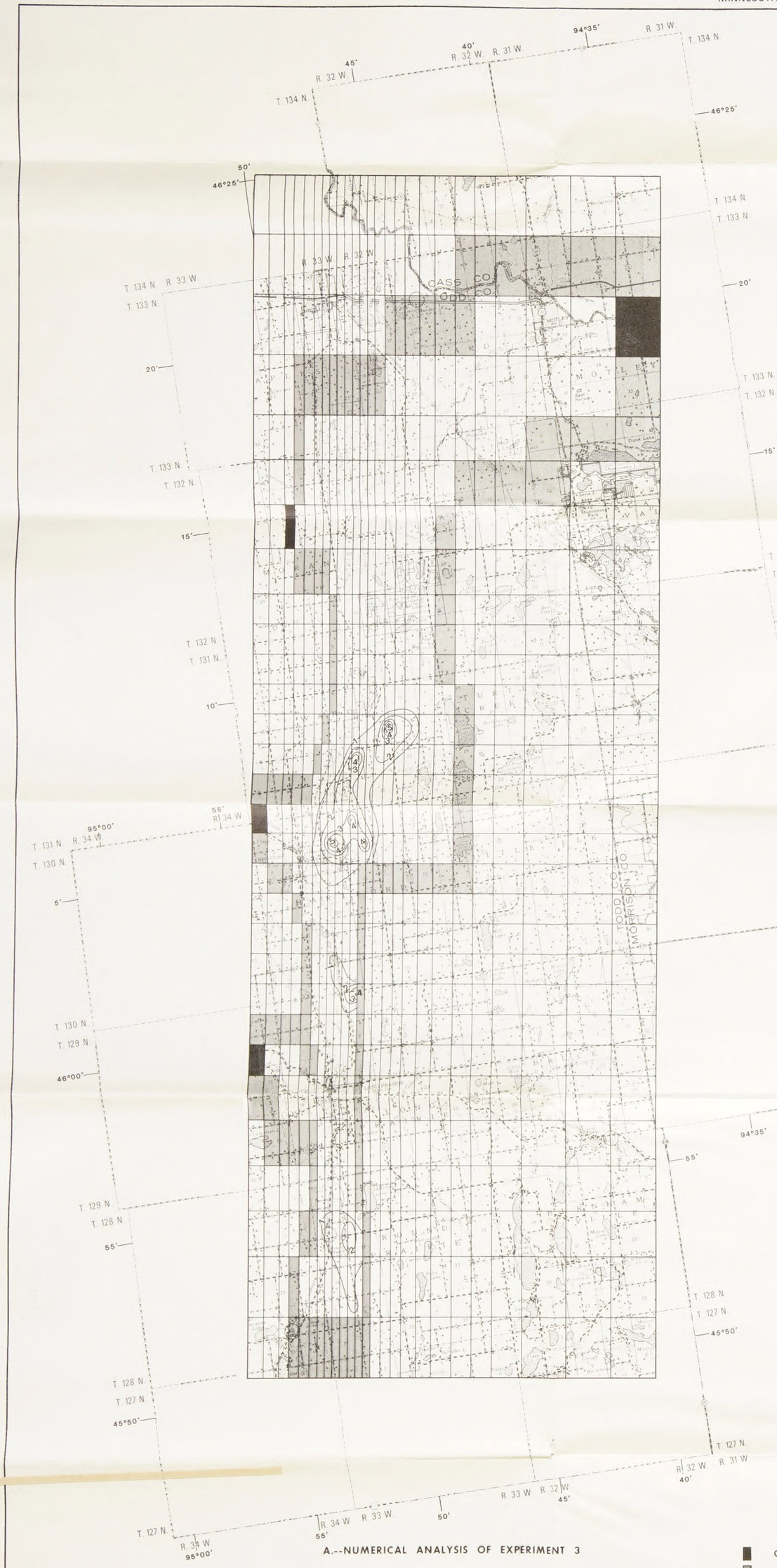
Base from Minnesota Department of Highways
General Highway Maps of Cass, Morrison,
and Todd Counties, 1977

PLATE 5.--MODEL GRID W

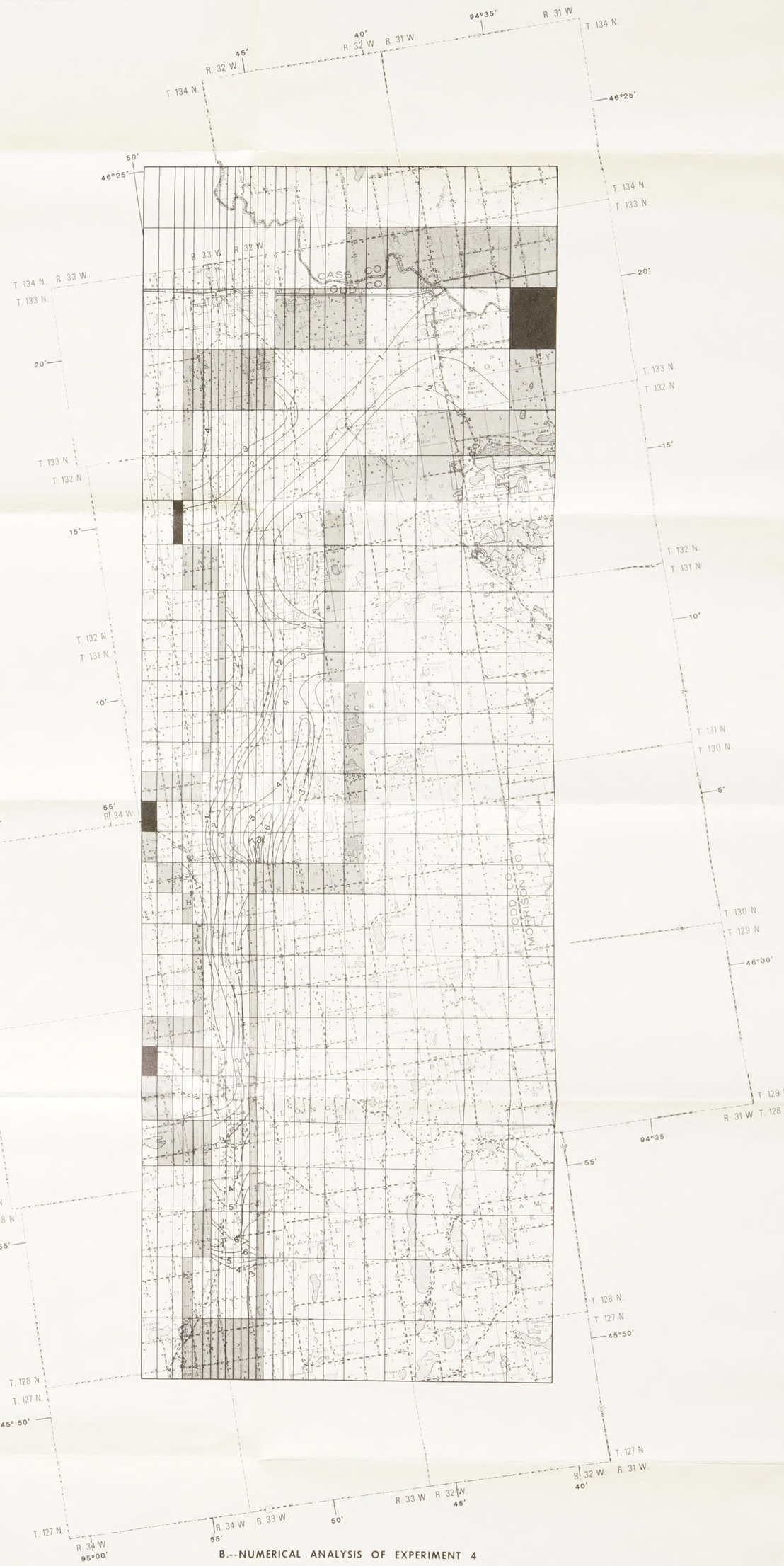
551.49
Un34 26w
no. 83-4150



WATER-RESOURCES INVESTIGATIONS REPORT 83-~~5156~~ 4156 AND THE
TODD, CASS, AND MORRISON COUNTIES STEERING COMMITTEE
MINNESOTA DEPARTMENT OF NATURAL RESOURCES



A.--NUMERICAL ANALYSIS OF EXPERIMENT 3



B.--NUMERICAL ANALYSIS OF EXPERIMENT 4

EXPLANATION

- Constant-head block
- Constant-flux block
- —3— WATER-LEVEL DRAWDOWN--Interval 1 foot

0 2 4 6 MILES
0 2 4 6 8 KILOMETERS

Base from Minnesota Department of Highways
General Highway Maps of Cass, Morrison,
and Todd Counties, 1977

PLATE 6.--NUMERICAL-MODEL ANALYSES FOR EXPERIMENTS 3 AND 4

DEPOSITORY
UNIVERSITY OF ILLINOIS
URBANA-CHAMPAIGN
APR 18
COPY
551.49
Un3426w
no.83-4156

T. 127 N.

R. 34 W.

95°00'

R. 34 W

55'

R. 33 W.

50'

R. 33 W. R.

A.--NUMERICAL ANALYSIS OF EXPERIME

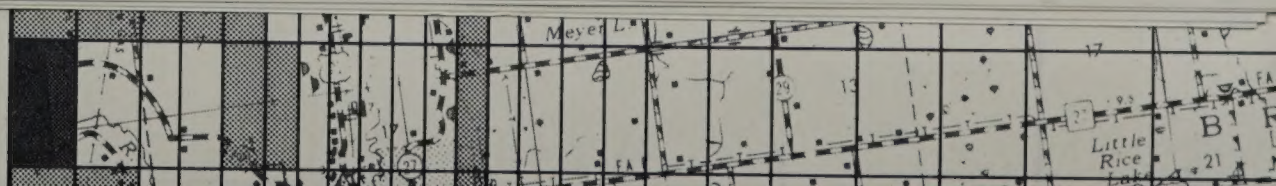
Base from Minnesota Department of Highways
General Highway Maps of Cass, Morrison,
and Todd Counties, 1977

PLA

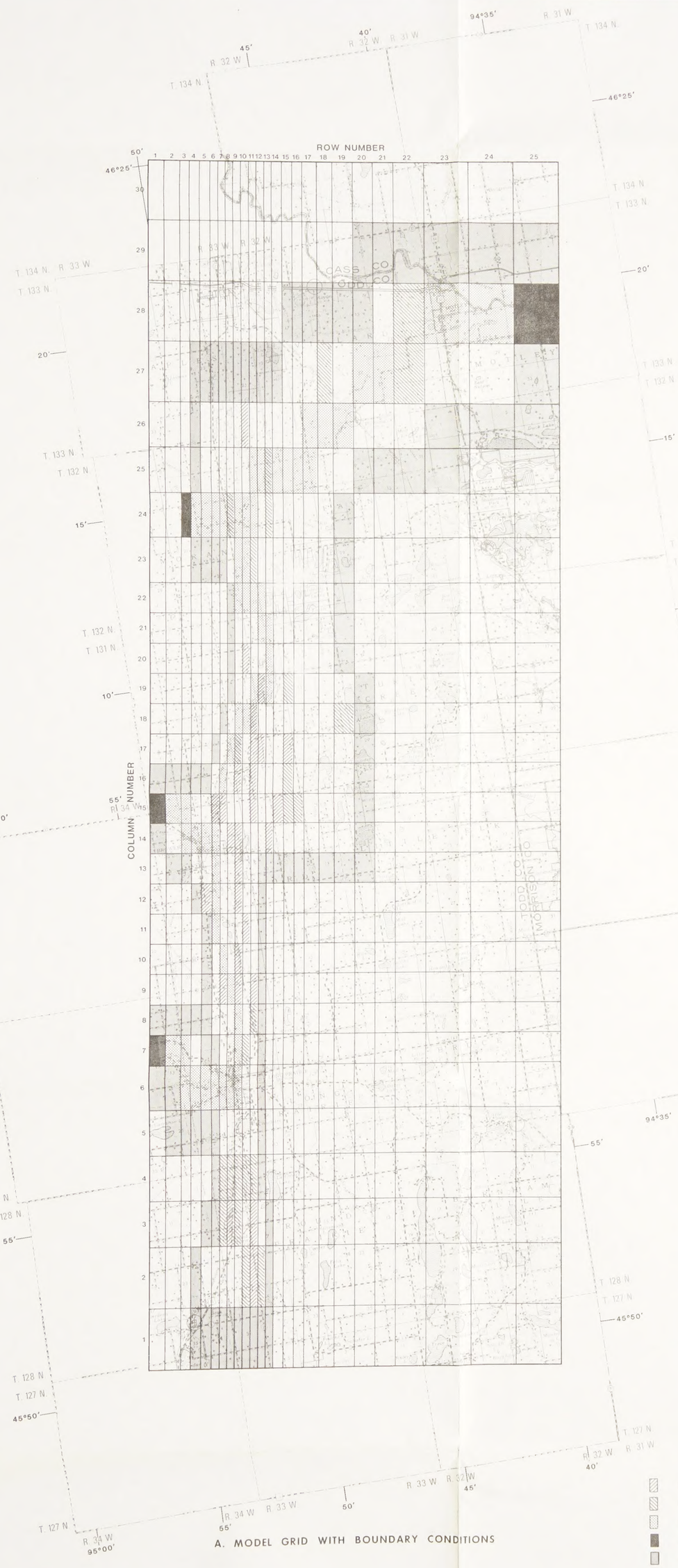
GEOLOGY
UNIVERSITY OF ILLINOIS
AU URBANA-CHAMPAIGN
APR 19
DEPOSITORY
551.49
Un3426w
no. 83-41516

T. 129 N.

46°00'



WATER-RESOURCES INVESTIGATIONS REPORT 83-~~5156~~ 4156 AND THE
TODD, CASS, AND MORRISON COUNTIES STEERING COMMITTEE
MINNESOTA DEPARTMENT OF NATURAL RESOURCES



A. MODEL GRID WITH BOUNDARY CONDITIONS

B.--NUMERICAL ANALYSIS OF EXPERIMENT 2

EXPLANATION

- Present (1978) pumping center
- Hypothetical pumping center

EXPLANATION

- Stream-leakage block
- Constant-head block
- Constant-flux block
- —3— WATER-LEVEL DRAWDOWN--Interval 1 foot

0 2 4 6 MILES
0 2 4 6 8 KILOMETERS

Base from Minnesota Department of Highways General Highway Maps of Cass, Morrison, and Todd Counties, 1977

DEPOSITORY
APR 19
UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

PLATE 5.--MODEL GRID WITH BOUNDARY CONDITIONS AND THE NUMERICAL-MODEL ANALYSIS FOR EXPERIMENT 2